

DITKIN, V.A. (Moskva); PRUDNIKOV, A.P. (Moskva)

Operational calculus of Bessel operators. Zhur.vych.mat.i mat.
fiz. 2 no.6:996-1018 N-D '62. (MIRA 15:11)
(Calculus, Operational)

ULANOVSKIY, V.P.; KHOVANSKIY, G.S.; DITKIN, V.A., prof., ovt.
red.; ORLOVA, I.A., red.; KORKINA, A.I., tekhn. red.

[Interpolation of tabulated functions of several
variables by means of numerical and nomographic representa-
tion] Interpolirovanie tablichnykh funktsii mnogikh peremen-
nykh sredstvami chislennogo i nomograficheskogo predstavle-
niia. Moskva, VTs AN SSSR, 1963. 74 p. (MIRA 17:1)
(Functions of several variables)
(Interpolation)

OSIPOVA, L.N.; TUMARKIN, S.A.; DITKIN, V.A., prof., otv. red.;
ORLOVA, I.A., red.; KORKINA, A.I., tekhn. red.

[Tables for calculating toroidal shells] Tablitsy dlia
rascheta toroobraznykh obolochek. Moskva, Vychislitel'nyi
tsentr AN-SSSR, 1963. 91 p. (MIRA 16;6)
(Elastic plates and shells—Tables, calculations, etc.)

ZHURINA, M. I.; KARMAZINA, L. N.; DITKIN, V. A., prof., otv. red.;
ORLOVA, I. A., red.; POPOVA, N. S., tekhn. red.

[Tables of Legendre's functions $P_{-1/2+i\tau}^l(x)$]
Tablitsy funktsii Leshandra $P_{-1/2+i\tau}^l(x)$.

Moskva, Vychislitel'nyi tsentr AN SSSR, 1963. 404 p.
(Legendre's functions) (MIRA 16:7)

L 12747-63
IJP(C)

EWT(d)/FCC(w)/BDS AFFTC

S/208/63/003/002/002/014

52

AUTHOR: Ditkin, V. A. and Prudnikov, A. P. (Moscow)TITLE: The theory of operational calculus generated by Bessel equationPERIODICAL: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 3,
no. 2, 1963, 223-238

TEXT: Operational calculus of two variables is discussed here more thoroughly than in previous works by the same authors (Ref. 2: Integral'nyye preobrazovaniya i operatsionnoye ischisleniye [Integral transformations and operational calculus], M. Fizmatgiz, 1961; Ref. 3: Operatsionnoye ischisleniye po dvum peremennym i yego prilozheniya [Operational calculus of two variables and its applications], M., Fizmatgiz, 1958). Instead of the set of all functions $f(x,y)$ defined in the region $R(0 \leq x < \infty, 0 \leq y < \infty)$ integrable in the sense of Lebesgue within an arbitrary finite rectangle $R_{ab}(0 \leq x \leq a, 0 \leq y \leq b)$, the authors now investigate a subset consisting of all the functions of the form $f(xy)$. First they introduce and discuss the properties of the ring C_B of all functions of the system

$$F(t) = \int_0^t \frac{du}{u} \int_0^u f(v) dv + C$$

Card 1/3

L 12747-63

The theory of operational

This leads quite naturally to the study of various operator functions of the operator

$$B = \frac{d}{dt} t \frac{d}{dt}$$

which is closely connected to the equation

$$\frac{d}{dt} t \frac{d}{dt} y = \lambda y$$

which is actually the transformed Bessel equation

$$y'' + \frac{1}{x} y' - y = 0$$

using the substitution $x = 2\sqrt{\lambda}t$. The operator calculus of B can be established starting with the Bessel-Meyer integral

$$f^*(B) = 2 \int_0^\infty f(t) K_0(2\sqrt{Bt}) dt$$

Card 2/3

S/208/63/003/002/002/014

O

L 12747-63

S/208/63/003/002/002/014

O

The theory of operational

The authors derive

$$\bar{a}(B) = 2B \int_0^{\infty} f(t) K_0(2\sqrt{Bt}) dt \quad (4.11)$$

which is the analogue to the Laplace-Carson transform and supply a table with 25 examples of application of (4.11). There is 1 table.

SUBMITTED: August 11, 1962

Card 3/3

KARPOV, K.A.; CHISTOVA, E.A.; DITKIN, V.A., prof., otv. red.

[Weber functions] Tablitsy funktsii Webeta. Moskva, Vy-chislitel'nyi tsentr AN SSSR. Vol.2. 1964. 340 p.
(MIRA 17:7)

KHOVANSKIY, G.S.; DITKIN, V.A., prof., otv. red.; ORLOVA, I.A.,
red.

[Methods in nomography] Metody nomografirovaniia. Moskva,
Vychislitel'nyi tsentr AN SSSR, 1964. 223 p. (MIRA 18:3)

ZHURINA, M.I.; OGIPPOVA, L.N.; DITKIN, V.A., prof., otd. red.;
ORLOVA, T.A., red.

[Tables of degenerate hypergeometric functions] Tab-
litsy vyrozhdennoi gipergeometricheskoi funktsii. Mo-
skva, Vychislitel'nyi tsentr AN SSSR, 1964. 243 p.
(MIRA 18:1)

BITKIN, V.A.; PRUDNIKOV, A.P.

Operational calculus of functions of the integral argument and
some of its applications in discrete analysis. Inzh.-fiz. zhur.
no.7:106-115 Jl '64. (MTR 17:30)

1. Vychislitel'nyy tsentr AN SSSR, Moscow.

KOROBOKHIN, B.I.; FILIPPOV, Yu.A.; DITKIN, V.A., prof., otv. red.;
ORLOVA, I.A., red.

[Tables of modified Whittaker functions] Tablitsy modifitsii-
rovannykh funktsii Uittekera. Moskva, Vyshislitel'nyi tsentr
AN SSSR, 1965. 321 p. {MIRA 18:5}

GRABAR', I.P.; DITKIJ, V.A., prof., otd. red.; ORLOVA, I.A.,
red.

[Tables of Chebyshev polynomials orthonormalized on a
system of equidistant points] Tablitsy polinomov Cebysheva,
ortonormirovannykh na sisteme ravnootstoishchikh
tochek. Moskva, Vychislitel'nyi tsentr AN SSSR, 1965.
69 p. (MIRA 18:12)

DITKIN, V.A., prof., otd. red.; ORLOVA, I.A., red.

[Tables of the logarithmic derivative of the gamma function and its derivatives in a complex region] Tablitsy logarifmicheskoi proizvodnoi gamma-funktsii i ee proizvodnykh v kompleksnoi oblasti. Moskva, 1965. 363 p.
(MIRA 18:7)

1. Akademiya nauk SSSR. Vychislitel'nyy tsentr.

ALEKSEYEV, D.G.; VEYNOV, K.A.; GORCHENKOV, S.G.; GUREVICH, S.B.; DITKOVSKIY,
A.S.; KAMKOV, G.I.; MORGEN, D.I.; PROKHORCHUK, I.S.; HUMYANTSEV, N.M.;
UCHASTKINA, Z.V.; SHISHOV, I.A.; MOLOZHAVYY, M.M.. red.; NIKOLAEV, N.N.,
red.; CHISTYAKOV, N.N.; red.; KHUDYAKOVA, A.V., red.; MOROZOV, Yu.V.,
red.izd-va; BACHURINA, A.M., tekhn.red.

[Soviet paper industry, 1917-1957] Bumazhnaya promyshlennost' SSSR,
1917-1957 gg. Pod obshchei red. K.A. Veinova. Moskva, Goslesbumizdat,
1958. 147 p.
(MIRA 12:3)

1. Nauchno-tehnicheskoye obshchestvo bumazhnoy i derevoobrabatyvayushchey promyshlennosti. 2. Chlen Nauchno-tehnicheskogo obshchestva bumazhnoy i derevoobrabatyvayushchey promyshlennosti (for all except Morozov, Bachurina).

(Paper industry)

DAYNOVSKIY, Anatoliy Boleslavovich; KUKLIN, Meticlev Nikolayevich;
DITKOVSKIY, A.S., red.; SIDEL'NIKOVA, L.A., red.izd-va; BACHU-
RINA, A.M., tekhn.red.

[Over-all utilization of wood in industry] Kompleksnoe ispol'-
zovanie drevesiny v promyshlennosti. Moskva, Goslesbumizdat,
1959. 78 p.
(Wood-using industries)

DITKOVSKIY, A.S.

Woodpulp and paper industry of the U.S.S.R. in 1959-1965.
Bum.prom. 34 no.9:23-24 S '59. (MIRA 13:2)
(Woodpulp industry) (Paper industry)

DITKOVSKIY, A.S.

Woodpulp and paper industry of the U.S.S.R. from 1959 to
1965. Bum.prom. 34 no.10:23-24 O '59. (MIRA 13:2)

(Woodpulp industry--Equipment and supplies)

(Paper industry--Equipment and supplies)

~~D.P.~~ DITKOVSKIY, D.P.

HENRY, Thomas Anderson; DITKOVSKIY, D.P. [translator]; SUVOROV, N.N.,
[translator]; RODIONOV, V.M., akademik, redaktor [deceased];
VUL'FSOON, N.S., doktor khimicheskikh nauk, redaktor; LEVIKA,
E.M., otvetstvennyy redaktor; SHPAK, Ye.G., tekhnicheskiy
redaktor

[The plant alkaloids. Translated from the English] Khimiia
rastitel'nykh alkaloидов. Perevod s angliйskogo. Pod red. V.M.
Rodionova i N.S.Vul'fsona. Moskva, Gos. nauchno-tekhn. izd-vo,
khim. lit-ry, 1956. 904 p.
(MLRA 10:1)
(Alkaloids)

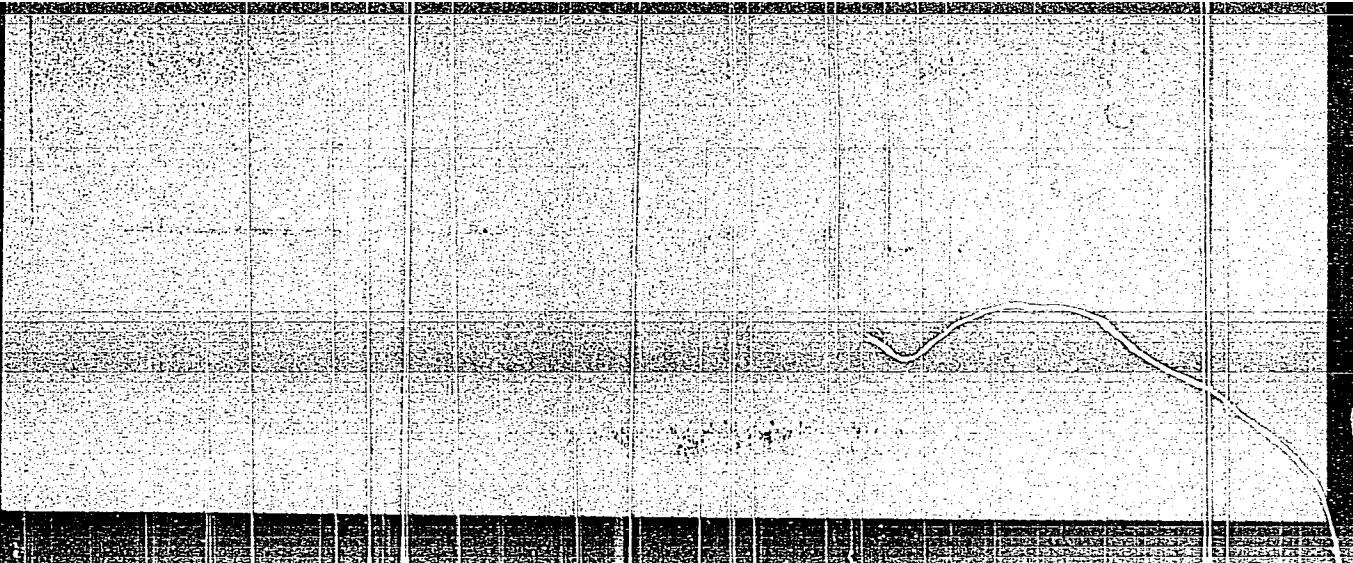
PODGORETSKIY, V.; DITKOVSKIY, P., agronom

When there is one master on the land. MTS 18 no.8:7-8 Ag '58
(MIRA 11:9)

1. Predsedatel' kolhoza imeni XX parts"yesda Zhitomirskogo rayona,
Zhitomirskoy oblasti (for Podgoretskiy). 2. Kolhoz imeni XX parts"yesda
Zhitomirskogo rayona, Zhitomirskoy oblasti (for Dikovskiy).
(Collective farms)

CHERNOY, Zalman Isakovich; DITKOVSKIY, V.M., inzh., retsenzent; DOKSHITSKIY, A.B., inzh., red.; DUGINA, N.A., tekhn. red.

[Operating the control board of an electric furnace] Upravlenie pul'-tom elektropeschi. Moskva, Mashgiz, 1961. 125 p. (MIRA 14:10)
(Electric furnaces) (Automatic control)



DITL, A.

Accuracy of registration of time dependence of mechanical quantities. p. 64.
SLABOPROUDY OBZOR, Prague, Vol. 15, no. 2, Feb. 1954.

DITL, A

(C 7)

2761. Rapid measurement of gain-bandwidth factor of triode valves. E. Klima AND A. Ditt. *Stod-proud* Obzor, 16, No. 1, 19-22 (1957) [in Czech].

The method described is accurate to within 1%, and is applicable to the measurement of large quantities of valves of the same type. The gain-bandwidth factor of a pentode, W , under normal operating conditions, is determined on the basis of two measured parameters: grid quality factor $W_g = g_m/2\pi C_g$ and anode quality

factor $|W_a| = g_m/2\pi C_a$, where g_m is the mutual conductance of the valve, C_g and C_a being the input and output capacitances, respectively. W_g is measured with the valve connected as an amplifier having a resistance R_a in the anode, a signal of frequency f being applied to it.

✓ 4915. Instantaneous frequency
verification. A. Dittl. Slobopisny Obzor, 16, No. 7,
345-50 (1955) T.R. Czech.
Derives an expression for the instantaneous

6213.018.4

frequency of a complex waveform $T(t)$ which can be represented as the product of an amplitude function $Q(t)$ and a phase function $\phi(t)$. The instantaneous frequency, σ , is given by an infinite inverse series involving the derivatives of $Q(t)$. In the case of small frequency deviations, σ is given by the first derivative of $\phi(t)$, or $\sigma = \text{Im}T(t) \cdot dT(t)/dt$. The expression is employed to evaluate σ for a function $a_1 \cos \omega_1 t + a_2 \cos \omega_2 t$. It is shown that σ varies periodically with time, its average value being equal to either ω_1 or ω_2 . These results were confirmed experimentally and are illustrated by a number of oscillograms. Comparison of the author's definition of σ with that of other workers further confirms its validity and leads to the conclusion that the definition of Eaglefield (1946) is incorrect.

R. Z. Slobodowicz

Ditl, A.

Ditl, A.

Ditl, A. Relay station for television picture signals using traveling-wave tubes. p. 520.
Haj. Recording of high-speed single stroke electric transients. p. 525.

Vol. 17, no. 9, Sept. 1956
SLABOPROUDY OBZOR
TECHNOLOGY
Czechoslovakia

So. East European Accessions, Vol. 6, May 1957

(3) any

Ditl, A.

Ditl, A. P. M. Woodward's Probability and Information Theory with Applications to Radar; a book review. (Supplement) p. L9.

Vol. 18, no. 2, Feb. 1957
SLABOPROUDY OFZOR
TECHNOLOGY
Czechoslovakia

See Exact Numerical Analysis

DITL, A.

621.375.2 : 621.372.5

3

359. PHASE EQUALIZERS IN INTERMEDIATE-FREQUENCY

AMPLIFIERS - J. Kopačka and A. Duh

Stroopisoudy Obzor, Vol. 19, No. 3, 403-500 (1958). In Czech.

It is pointed out that phase equalization of i.f. amplifiers should be made by non-minimum phase-shift networks. The required all-pass characteristic can be secured by means of bridged-T quadrupoles. Three types of such quadrupole, consisting of LCR parameters, are analysed. Expressions for the attenuation, phase shift and group delay of the networks are derived. The group delay characteristics of the networks are plotted as a function of frequency for various values of network bandwidth. The formulae were employed to design two practical networks (for frequencies of 105 and 80 Mc/s, and bandwidths of 30 and 20 Mc/s) and calculated results were in good agreement with measurements.

R.S. Sidorowicz

DITL, A.

Twenty years of pulse-code modulation. p. 458.

SLAOPROUDY OHZOR. (Ministerstvo vseobecniho strojirenstvi, Ministerstvo, spoju
a Ceskoslovenska vedecko-technicka spolecnost, sekce elekrotechnika) Praha,
Czechoslovakia, Vol. 20, No. 7, July 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11,
November 1959.

Uncl.

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410420020-8

DITL, A.

Code modulated systems for multiple telephone and video transmission
by cables. Slaboproudny obzor 23 no.1:53-55 Ja '62.

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410420020-8"

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410420020-8

DITL, A.

Telephone central office with frequency modulator. Slaboprocudy
obzor 23 no.2:115-116 F '62.

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410420020-8"

9,3275

Z/039/62/023/006/003/003
D409/D301

AUTHOR: Ditl, Augustin, Doctor, Candidate of Sciences

TITLE: Distortion in pulse-modulated systems

PERIODICAL: Slaboproud' obzor, v. 23, no. 6, 1962, 342-345

TEXT: Distortion in communication systems with time-division (pulse modulation) is analyzed, and it is shown that the harmonic signal is not only distorted by higher harmonics, but also by a "stroboscopic" component which impedes the measuring of quantization noise in pulse-code-modulated systems. Three methods are therefore listed which permit one to measure the quantization noise in PCM systems by suppressing the nonlinear distortion. The author generally describes time-division multiplexing and pulse modulation processes, and states that distortions in such communication systems differ essentially from those observed in af amplifiers, since the nonlinearity in pulse-modulated systems causes

Card 1/3

KB

Z/039/62/023/006/003/003

D409/D301

Distortion in pulse-modulated systems

✓
B

harmonic and "stroboscopic" components. The author then calculates the distortion magnitude for several pulse-modulation and demodulation processes (PAM, PPM, PWM, and PCM), and lists three methods to suppress the harmonic and stroboscopic components when the quantization noise should be measured in a PCM system. (1) Measuring with large signals can be made when the measured channel is modulated by a harmonic signal and this signal is suppressed on the receiver side by a bridge; in case a suitable modulation frequency (2,667 or 2,000 cps) is chosen, the harmonic and stroboscopic components in the residual voltage can be suppressed by a low-pass filter or another bridge. (2) A frequency analyzer can be used which is adjusted to a frequency where no harmonic or stroboscopic components originate; the quantization noise can then be measured after the basic component of the modulated transmitter has been determined. (3) Measurements at small signals can be made since nonlinear components are then still negligible while the quantization noise has already reached its maximum value; if the basic component is suppressed on the receiver side by a bridge, the residual voltage represents the quanti-

Card 2/3

Distortion in pulse-modulated systems

Z/039/62/023/006/003/003
D409/D301

zation noise which is independent of the signal frequency. There are 5 figures. The English-language reference is : H. Scheftelowitz: Noise in a PCM Transmission System. Ericson Technics 1960, n. 2, pp 207 - 244.

ASSOCIATION: Výzkumný ústav spojů, Praha (Communications Research Institute, Prague)

SUBMITTED: February 10, 1962

Card 3/3

DITL, A.

Code pulse modulation with few levels. Slaboyroudy obzor
22 no.10:636-637 0 '61.

DITL, Augustin, dr., C.Sc.

Transfer of information by digital code. Sdel tech 10 no.7:
243-245 Jl '62.

DITL, Augustin, dr., C.Sc.

Distortion in pulse modulated systems. Slaboproudý obzor 23
no.6:342-345 Je '62.

1. Vyzkumny ustav spoju, Praha.

DITL, A.

"Fundamentals of signal theory" by J.L.Stewart. Reviewed by
A.Ditl. Slaboproudý obzor 23 no.7:377 J1 '62.

DITRYCH, Zdenek

Solid lightened plastic materials. Chem prum 12 no.4:222-223 Ap '62.

1. Vyzkumny ustav syntetickych pryskyrie a laku, Pardubice.

DITTMANN, Leopold; NEUMANN, Jiri

Ten years of the national enterprise "Laboratorni potreby".
Tech praca 14 no.8:645-650 Ag '62.

DITL, Augustin, dr., C.Sc.

Oriented radio communications. Slaboproudý obzor 23 no.9:Suppl.:
Príloha pro mlade inzenyry P. 57 - P 64 '62.

DITL, A.

Television image transmission by the delta modulation. Slaboproudny
obzor 24 no.2:113 F '63.

DITL, A.

"An introduction to the statistical communication theory" by
D. Middleton. Reviewed by A. Ditzl. Slnhoproudý obzor 24 no.3:
Suppl: Literatura 24 no.3:119 '63.

DITL, A.

"Transistors and active circuits" by J.G.Linvill and J.F.Gibbons.
Reviewed by A.Ditl. Slaboproudny obzor 24 no.2:Suppl.;Literatura
24 no.2:L15 '63.

S/274/63/000/002/019/019
A055/A126

AUTHOR: Ditzl, Augustin

TITLE: Device for multichannel coding in systems with pulse-time modulation

PERIODICAL: Referativnyy zhurnal, Radiotekhnika i Elektronika i Elektrosvyaz', no. 2, 1963,
29, abstract 2V150 P (Czech. pat., cl. 21 a⁴, 14/01, 21 a⁴, 56, no.
100783, September 15, 1961)

TEXT:
The object of the patent is a device for multichannel coding, remarkable for the simplicity of the circuit and the possibility of changing quickly the coding method. The essential part of the invention (see Figure) is the use (in the output equipment) of a common distributor 1, whose number of code outputs (a, b, c) is determined by the adopted code-formation method and by the number of elements of the code (a binary code of the kind: a = 2², b = 2¹, c = 2⁰ is used in the described system). Besides, the distributor 1 ensures the transmission of "cadence pulses". A and controls the operation of the generator with pulse-time modulation 11. The pulses from output I of generator 11 ac-

Card 1/3

S/274/63/000/002/019/019

A055/A126

Device for multichannel coding in systems with

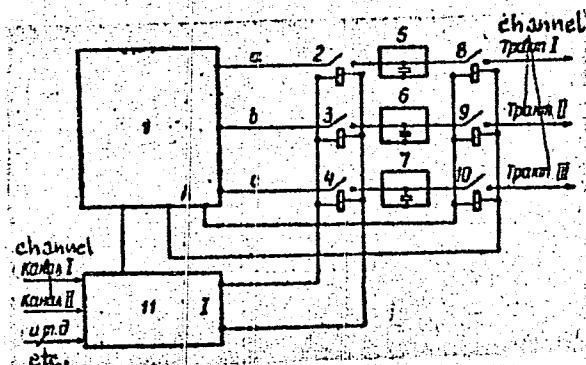
tuate - at moments determined by the signal level at the corresponding output of this generator - the electronic or electromechanical relays 2, 3, 4. These relays ensure the connection of the outputs of distributor 1 to the memory elements 5, 6, 7, that fix the code combination adequate to the signal at the input of generator 11. When the "cadence pulses" emerge from the output A of distributor 1, the electronic or electromechanical relays 8, 9 and 10 enter into operation; these relays ensure the transmission of information, through the channels I, II, III, to the next elements of the circuit, used for time- or frequency multiplexing. After the transcription of information, the memory elements are blanked. The change of the coding method is effected by simply switching over the conductors a, b and c. There are 3 figures.

Card 2/3

8/274/63/000/002/019/019
A055/A126

Device for multichannel coding in systems with

Figure



I.P.

[Abstracter's note: Complete translation]

Card 3/3

DITL, A.

"A handbook of selected semiconductor circuits." Reviewed by
A. Ditzl. Slaboproudny obzor:Suppl.: Literatura 24 no.4:L31 '63.

DITL, A.

"Mathematical tools for the physicist" by E. Madelung. Reviewed
by A. DITL. Slaboproudly obzor:Suppl.:Literatura 24 no.8:L61 '63.

DITL, Augustin, dr., CSc.

Remark on quantization noise in pulse code modulation systems.
Slaboproudý obzor 24 no.8:435-438 Ag '63.

1. Vyzkumny ustav spoju, Praha.

ACCESSION NR: AP4016606

Z/0042/64/000/002/0108/0114

AUTHOR: Ditzl, Augustin (Candidate of sciences, Doctor of natural sciences)

TITLE: An a-c bridge for measuring nonelectric quantities

SOURCE: Elektrotechnicky casopis, no. 2, 1964, 108-114

TOPIC TAGS: a-c bridge, pulse modulation theory

ABSTRACT: In tracing non-electrical quantities with an electrical bridge fed with an alternating current, the question arises as to how fast the bridge follows a sudden increase of the measured quantity. It is shown that this problem can be converted into a problem of discrete information transmission, i.e., into a problem from the theory of pulse modulation. It is shown that a bridge response can be achieved for a sudden leap of the measured quantity. This operation is somewhat longer than the period of the alternating supply current, if care is taken that the demodulator is actually double-acting and if a double T-bridge is used to suppress the components with the double carrier frequency. Orig. art. has: 4 figures and 9 equations.

Card 1/2

ACCESSION NR: AP4016606

ASSOCIATION: Vyzkumný ustav spoju, Prague (Communications Research Institute)

SUBMITTED: 04Apr63

DATE ACQ: 03Mar64

ENCL: 00

SUB CODE: GE

NO REF Sov: 000

OTHER: 003

Card 2/2

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410420020-8

DITL, A., dr.

* Experimental 24 channel pulse code modulation system of
Standard Telephones and Cables. Slaboproud obzor 25
no.1:50-51 Ja'64.

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410420020-8"

DITL, Augustin, dr. CSc.

Minimum power necessary for telephone signal transmission
in the pulse code modulation system. Slaboprtudy obzor
25 no. 2: 66-68 F '64.

1. Vyzkumny ustav spoju, Praha.

DITL, A., dr.CSc.

Transistor microwave system. Slaboproudny obzor 25 no.9:548
S '64.

DITL, A., dr. CSc.

Experimental 24-channel system with a code modutatior made
by the Automatic Telephone and Electric Co. Slaboprouly
obzor 25 no.10;6nq-610 0 '64.

DITL, A., dr.

Probability integral and functions similar to it. Slaboproudny
obzor 25 no.11:678-679 N '64.

DITL, A.

"Tables of series, products and integrals" by I.M.Ryzhik [Ryzhik, I.M.], I.S.Gradstein [Gradsteyn, I.S.]. Reviewed by A.Ditl.
Slaboproudý obzor 25 no.3:Suppl:Literatura 25 no.3:L23 '64.

DITL, A., Dr. CSc.

"Introduction to telecommunication engineering" by R. Feldtkeller, G.Gosse. Reviewed by A.Ditl. Slaboproudny obzor 25 no.10:Suppl:Litteratura 25 no.10:L77 '64.

"Statistical theory of communication" by Y.W.Lee. Reviewed by A.Ditl. Ibid.:L79

L 42143-66

ACC NR: AP6031112

SOURCE CODE: GE/0009/65/074/004/0111/0115
*54*AUTHOR: Ditl, Augustin (Doctor; Prague)

ORG: none

TITLE: Notes on the synchronization of a pulse code modulation installation

SOURCE: Hochfrequenztechnik und Elektroakustik, v. 74, no. 4, 1965, 111-115

TOPIC TAGS: pulse code modulation, pulse signal

ABSTRACT: It was shown that extremely rapid synchronization (a few milliseconds) can be achieved, albeit at a considerable expense, by providing a single synchronization component in which both the transmission and the reception signal appear alternately. Another system, less costly but also slower, consists of a device in which the individual areas are scanned sequentially. The maximum tolerance limits for pulse code modulation system synchronization were discussed and the computation methods involved in applicable theories were described. Orig. art. has: 14 formulas and 3 tables.

[JPRS: 33,543]

SUB CODE: 17 / SUBM DATE: 17Sep64 / ORIG REF: 004 / OTH REF: 006

UDC: 621.376.56

0918

2332

Card 1/1.

DITTL, J.

INFLUENCE OF METALLURIGICAL FACTORS ON WELDING. J. Dittl.
Svarovani 1948, vol. 8, No. 9, pp. 117-127. In Czech. The paper describes the influence of various gases, particularly that of oxygen nitrogen and hydrogen on the quality of welds. Oxygen is particularly harmful if its contents increase above 0.1% when it affects the notch toughness of the material and the structure gets coarser. The influence of up to 0.20% each of oxygen and nitrogen on the mechanical properties of steel is shown by graphs. The author outlines briefly the known prospective effects of the various types of coating with special reference to electrodes produced in Czech. The occurrence of fish eyes in welds produced by high quality electrodes is explained and methods for their elimination are described. The author outlines briefly the temperature which occurred during cooling. The utility of the Jominy and slow notch bend tests for the determination of welding current, welding speed and choice of suitable electrodes is demonstrated by a practical example. The isothermal time temperature transformation diagram is also explained and it is shown how it

continued: can be used in the selection of suitable electrodes
and heat treatments for repairing dies and tools by welding.

Immediate source clipping

DITL JOSEF → DITL, JOSEF
DITL Josef.

BTR
v.2 Dec 53

Metals - Welding or Joining

1.
2.

13567* Dependence of the Notch Bar Impact Strength
of Welded Metals on the Mn ~~and~~ Si Content of the Elec-
trodes. (Czechoslovakian.) Josef Dittl. Hutnické Listy, v. 7,
no. 12, Dec. 1952, p. 637-639
Maximum values were obtained for 0.6-1% Mn. Si content
had little effect on the range tested. Tables, diagram, graphs.

DITL, J.

Use of isothermal diagrams for welding and The mit welding. p. 26.
(Zvarania, Vol. 3, no. 1, Feb. 1954, Praha.)

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4,
No. 11, Nov. 1955, Uncl.

DITLOV, A.

Results and future plans. Sov.foto 21 no.5:26-27 My '61.
(MIRA 14:5)

1. Predsedatel' fotosektsii Soyuza zhurnalistov RSSR.
(White Russia—Photography) (News photographers)

PILATOV, P.N.; DITMAR, A.B.

In memory of Vladimir Feliksovich Pietrovskii, 1876-1965.
Iav. Vses. Geog. ob-va 97 no.5:499-500 S-0 '65.

(MIRA 18:11)

DIKEMAN, S.A.; BOGDANOV, V.G.

Simplified X-ray spectrograph for a microanalyzer. Zav. lab.
No. 507-508 '65.
(MIRA 13:12)

I. Institut metallurgii im. A.E.Paykova, Moskva.

DITMAN, A.V.; VYCHNO, I.N.

Dissociation of iron sulfide at high temperatures measured by
the dew point method. Izv. AN SSSR. Neorg. mat. 1 no.9:1530-
1536 S '65.
(MIR 18:11)

1. Institut poluprovodnikov AN SSSR.

DITMAN, Irina Alekseyevna; MEDVEDER, Lyudmila Dmitriyevna; STOLETNAYA,
Anna Markianovna; GEL'FENBEYN, L.L., otv.red.; TROFIMENKO, A.S.,
tekhn.red.

[Mining; a reader] Mining. Khrestomatiia po gornomu delu.
Khar'kov, Izd-vo Khar'kovskogo ordena Trudovogo krasnogo znameni
gos.univ. imeni A.M.Gor'kogo, 1959. 120 p. (Text in English with
vocabulary).

(Mining engineering)

(MIRA 12:12)

DITMAN, Irina Alekseyevna; VOLOSHCHENKO, Diana Kuz'minichna; MEDVEDER,
Lyudmila Dmitriyevna; STOLETNYAYA, Anna Markianovna;
TERPIGOREVA, V.D., retsenzent; BELOCHKIN, A.G., otv. red.;
PARTSEVSKIY, V.N., red.izd-va; NURMUKHAMEDOVA, V.F., red.
izd-va; PROZOROVSKAYA, V.L., tekhn. red.

Ore mining. Moskva, Gosgortekhizdat, 1963. 162 p. [Text in
English with vocabulary]
(MIRA 17:2)

CHUDNOVSKIY, D.M.; BESTUZHEV, S.I.; DITMAN, L.M.; LIMANOV, L.A.;
SHAPIRO, I.L.; USPENSKIY, V.V., red.; MORSKOY, K.L., red.
izd-va; MOCHALINA, Z.S., tekhn. red.

[Economics and planning of the manufacture of precast-concrete] Ekonomika i planirovanie proizvodstva sbornogo zhelezobetona. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 438 p. (MIRA 15:2)
(Precast concrete)

BATEKHIN, G.M.; NEVOLIN, N.P.; KLEYNFEL'D, I.A.; DITMAN, L.M.,
nauchnyy red.; GLAZUNOVA, Z.M., red. izd-va; TEMKINA, Ye.L.,
tekhn. red.

[Organization of wages in the enterprises of the building
materials industry]Organizatsiya zarabotnoi platy na pred-
priatiakh promyshlennosti stroitel'nykh materialov. Mo-
skva, Gosstroyizdat, 1962. 306 p. (MIRA 15:9)
(Wages—Building materials industry)

DITMAN, I.A., inzh.; MIKHAYLOV, Yu.I., inzh.

Bunker conveyors. Mekh.i avtom.proizv. 16 no.8:52-53 A_E
'62. (MIRA 15:9)
(Conveying machinery)

DITMAN, Yu.

"Ankle fractures and their treatment." E.N.Kalinovskaya. Reviewed
by Iu.Ditman. Vest.khir.74 no.7:87-89 O-II '54 (MLRA 8:10)
(ANKLE--FRACTURES) (KALINOVSKAIA, E.N.)

DITMAN, Yu. M.
USSR/Medicine - Preventive, in Industry

FD-1873

Card 1/1 Pub. 102-8/15

Author : Ditman, Yu. M., Candidate of Medical Sciences and Gritskikh, M. A.

Title : Occupational traumatism in fish canning industry

Periodical : Sov. zdrav., 2, 34-39, Mar-Apr, 1955

Abstract : A study made, in 1950 and 1951, of the causes of traumatism in the fish canning combine imeni A. I. Mikoyan revealed that 75% of all injuries were due to organizational and technical defects: 26.5% of that number were due to insufficient training in safety methods given to new workers. Although fish industry has expanded considerably in the USSR, little has been done to learn the causes of traumatism in that branch of national economy. The authors of this article recommend that some operations be mechanized, that workers be provided with gloves of good quality, and that turners be supplied with protective glasses.

Institution: Faculty Surgical Clinic (Prof. Kh. F. Kaplan, Director), Astrakhan Medical Institute

Submitted : August 12, 1954

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410420020-8

DITMAN, Yu.M.

"Dislocations and fractures," B.M. Khromov. Reviewed by Iu.M.
Ditman. Vest. khir. '76 no.11:148-149 '55. (MLRA 9:4)

(FRACTURES) (KROMOV, B.M.)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410420020-8"

DITMAN, Yu.M., oots. (Makhachkala)

"Care of surgical patients" by V.N.Khodkov. Reviewed by Yu.M.
Ditman. Fel'd. i akush. 23 no.2:59-61 F '58. (MIRA 11:3)
(SURGICAL NURSING)

DITMAN, Yu. M., dotsent

Case of phlegmonous calculous cholecystitis complicated by
choleperitoneum in 40-week pregnancy. Khirurgiia 37 no. 7:132-133
Jl '61. (MIRA 15:4)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. M. T.
Narornyy) Dagestanskogo meditsinskogo instituta.

(PREGNANCY, COMPLICATIONS OF)
(GALL BLADDER--DISEASES)
(PERITONITIS)

THOMSON, J.O.; SKATKIN, N.I., [translator] DITMAR, A.B. redaktor; REIDER,
D.G., redaktor; FILIPPOV, A.M., redaktor; KORNILOV, B.I., tekhnicheskiy
redaktor.

[History of ancient geography. Translated from the English by N.I.
Skatkin] Istorija drevnej geografii. Per. s anglijskogo N.I.Skatkina.
Pod red. A.B.Ditmara i D.G.Redera. Vstup. stat'ia A.B. Ditmara.
Moskva, Izd-vo inostrannoi lit-ry, 1953. 590 p. (MIRA 8:4)
(Geography--History)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410420020-8

DITMAR, A.B.

Mitrofan Stepanovich Bodnarskii. Izv.Vses.geog.ob-va 86 no.3:300-301
My-Je '54. (MIRA 7:6)
(Bodnarskii, Mitrofan Stepanovich, 1870-1953)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410420020-8"

DITMAR,A.; PETROV,I.

"Physical geography of Yugoslavia." A.N.Gratsianskii. Reviewed by
A.Ditmar, I.Petrov. Vokrug sveta no.9:61-62 S '55. (MIRA 8:12)
(Yugoslavia--Physical geography)(Gratsianskii, Andrei Nikolaevich)

DITMAR, A.B.

"Geological history of Yaroslavl Province." A.N.Ivanov. Reviewed by
A.B.Ditmar. Geog. v shkole 19 no.2:79 Mr-Ap '56. (MLRA 9:7)
(Yaroslavl Province--Geology) (Ivanov, A.N.)

DITMAR, A.B.

J.F. Hackman's textbook on Russian geography. Izv.Vses.geog.
ob-va 90 no.5:485-487 S-O '58. (MIRA 11:11)
(Physical geography--Early works to 1800)

DITMAR, A.B., otv.red.; VELIKANOV, D.A., red.; VOSKOBOTNIKOVA, S.M.,
red.; YAKOVLEV, K.F., red.; PUZHOUTSEVA, A.N., red.; KHODINOVA,
V.P., tekhn.red.

[Nature and economy of Yaroslavl Province] Priroda i kho-
ziaistvo Yaroslavskoi oblasti. Yaroslavl', Yaroslavskoe
knizhnoe izd-vo. Part 2. [Economy] Khoziaistvo. 1959. 230 p.
(MIRA 13:10)
(Yaroslavl Province--Economic conditions)

DITMAR, A.B., otv.red.; BOGACHEV, V.K., red.; BYTEV, O.N., red.;
IVANOV, A.N., red.; KULEMIN, A.A., red.; YAKOVLEV, K.F.,
red.; PUKHOVTSEVA, A.N., red.; KOZHEMYAKINA, V.P., tekhn.red.

[Nature and economy of Yaroslavl Province] Priroda i kho-
ziaistvo Yaroslavskoi oblasti. Yaroslavl', Yaroslavskoe
knizhnoe izd-vo. Pt.1. [Nature] Priroda. 1959. 381 p.
(MIRA 13:3).

1. Yaroslavl'. Gosudarstvennyy pedagogicheskiy institut.
(Yaroslavl Province--Geography)

DITMAR, A.B.

"Across the Himalayas" by I.I.Petrov. Reviewed by A.B.Ditmar.
Geog.v shkole 22 no.6:91-92 N-D '59. (MIRA 13:4)
(India--Description and travel)
(Petrov, I.I.)

DITMAR, Andrey Borisovich; GOLUETSOVA, Ye.S., kand. ist. nauk,
nauchnyy red.; SOLOV'YEV, A.I., akademik;
red.; PROKHODTSEVA, S.Ya., red.; SHUL'GA, L.K., mladshiy red.;
KOSHELEVA, S.M., tekhn. red.

[From Scythia to Elephantine; Herodotus' life and travels] Ot
skifii do Elefantiny; zhizn' i puteshestviia Gerodota. Moskva,
Geografgiz, 1961. 85 p.
(MIRA 15:6)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk (for
Solov'yev).

(Herodotus, c.484 - 425 B.C.)

DITMAR, A.H.

Physical geography in V.N.Tatishchev's works. Dokl. na nauch. konf.
1 no.4:138-142 '62. (MIRA 16:8)

(Physical geography)
(Tatishchev, Vasili NIKITICH, 1686-1750)

DITMAR, A.B., kand. geogr. nauk, red.; VOSKOBONYKOVA, S.M.,
kand. geogr. nauk, red.; IVANOV, A.N., kand. geol.-
miner. nauk, red.; ROKHMISTROV, V.L., red.; STEPANOVA,
A.A., red.

[Atlas of Yaroslavl Province] Atlas IAroslavskoi oblasti.
Moskva, 1964. 28 p. (MIRA 18:2)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodezii
i kartografii.

AGEYEV, K.S.; DITMAR, A.V.

Some characteristics of the relief of high-mountainous
regions in the Koryak Highland. Uch. map. NIIGA. Reg.
geol. no.4:137-150 '64. (NIPA 18:12)

DITMAR, V. G.

Geological Studies of the upper reaches of the Vilyuy River.
Izv. Gos. Geogr. Obshch. Vol 66 #1, 1934

SO: Trudy Arkitcheskoigo Nauchno-Issledovatel'skogo Instituta, GUSMP,
Council of Ministers, Vol 201, 1948

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410420020-8

DITMAR, V.G.

Ancient crown of Asia. Mat. VSEMEI. Ob. ser. no. 8:55-60 '48,
(Siberia--Geology, Stratigraphic) (MIRA 11:4)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410420020-8"

YANSHIN, A.L.; PETRUSHEVSKIY, B.A.; ALEKSANDROVA, M.I.; BORSUK, B.I.; VOLIN, A.V.; ZUBKOVSKAYA, I.M.; YAKOVLEV, D.I.; BER, A.G.; BOBOVIKOV, L.I.; BOITSOVA, Ye.P.; OVECHKIN, N.K.; BESPALOV, V.F.; SHINGIN, Ye.D.; SPERANSKIY, B.P.; KHAKHLOV, V.A.; RAGOZIN, L.A.; DITMAR, M.G.; GORSKIY, I.I., red.; KASSIN, N.G., red.; FOMICHEV, V.O., red.; DZEVANOVSKIY, Yu.K., red.; CHIEHACHEV, P.K., red.; KOMISHAN, I.S., red.; DASHKOVA, A.D., red.; VODOLAGINA, S., tekhn. red.; VODOVINA, M.P., tekhn. red.

[Geological map of the U.S.S.R., scale 1:1,000,000] Geologicheskaya karta SSSR, masshtab 1:1,000,000. [Explanatory notes to accompany sheet] Ob"iasnitel'naya zapiska k listu. L-40 [Emba] (Emba). 1949. 56 p. L-41 [Kzyl-Orda] (Kzyl-Orda). 1946. 20 p. L-42 [Karsakpay] (Karsakpai). 1949. 42 p. M-41 [Turgay] (Turgai). 1948. 28 p. M-43 [Karaganda] (Karaganda). 1947. 37 p. N-42 [Petropavlovsk] (Petropavlovsk) 1947. 27 p. N-44 [Novosibirsk] (Novosibirsk) 1948. 33 p. 0-45 [Tomsk] (Tomsk). 1949. 26 p. 0-49 [Kirensk] (Kirensk). 1947. 40 p. Moskva, Gos. izd-vo geol. lit-ry. (MIRA 11:8)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii.
(Geology--Maps)

MORDOVSKIY, V.T.; DITMAR, V.I.

Stratigraphy of Devonian deposits of the Rybinsk depression
(eastern Siberia). Dokl. AN SSSR 95 no.5:1055-1058 Ap '54. (MLRA 7:4)

Predstavлено академиком С.И.Мироновым.
(Siberia--Geology, Stratigraphic) (Geology, Stratigraphic-
Siberia)

15-57-10-14742

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,
p 228 (USSR)

AUTHORS: Ditmari, V. I., Mordovskiy, V. T.

TITLE: The Geologic History and Structural Subdivisions of the
Rybinskaya Vpadina (Basin) (Istoriya geologicheskogo
razvitiya i tektonicheskoye rayonirovaniye Rybinskoy
vpadiny)

PERIODICAL: Tr. In-ta nefti AN SSSR, 1956, Vol 7, pp 3-23

ABSTRACT: The Rybinskaya vpadina (basin) began to develop in the
Early Devonian. In the northern part of the basin,
Lower Devonian rocks rest on Archean granites, inter-
sected in drill holes at a depth of 1 032 m. The Archean
rocks also occur in the southern part of the structure,
where a conglomerate unit up to 70 m thick lies on top
of them. The conglomerates are covered by arkosic
sandstones and brownish-gray siltstones containing plant
remains characteristic of the Early Devonian. The total
thickness of these rocks at the southern part of the

Card 1/3

15-57-10-14742

The Geologic History and Structural Subdivision (Cont.)

basin is 600 m to 700 m. Magmatic material was extruded along faults about the margins of the basin in Middle Devonian time. A sequence of basalts, andesitic porphyrites, diabases, and tuffs was formed, interbedded with clastic and carbonate rocks of the Ivashikhinskaya series. In Late Devonian time the zone of maximum downwarping of the basement in the basin occurred in the northern half. The upper Devonian rocks are divided into two svity (series): a lower, Kachinskaya, 700 m thick, and an upper, Noyskaya, 224 m thick. The Kachinskaya series consists of highly carbonatic sandstones and siltstones with layers of brownish-red mudstones and marls with Framian fossils. The Noyskaya series is composed of greenish-gray sand-silt rocks. In the central part of the basin, Kachinskaya beds rest conformably on the lower lying Ivashikhinskaya series, but in the marginal parts of the basin they rest unconformably on older formations, Middle and Lower Devonian. Carboniferous rocks are unknown in the Rybinskaya basin. Clastic beds 40 m to 50 m thick (Belyy Yar series) accumulated in the northeastern part of the basin in Early Permian time. This is an ashy-gray, fine-, medium-, and coarse-grained sandstone with a large number of grains of chalcedony; locally it interbedded with gray siltstones, mudstones, and brown coals. Lower Permian plant fossils have been found in the mudstones.

Card 2/3

The Geologic History and Structural Subdivision (Cont.) 15-57-10-14742

and siltstones. There was apparently a break in sediment accumulation during the Triassic period. In the Jurassic, lacustrine coal-bearing-clastic sediments, over 500 m thick, accumulated in the Sayano-Partizanskiy, Borodinskiy, and Balayskiy regions. At this same time there was block faulting of the basement rocks along fault planes that had formed with the beginning of the Rybinskaya basin. Devonian beds were moved over Jurassic beds along these faults. Three large-scale tectonic elements are distinguished within the Rybinskaya basin: the Rybinskaya mul'da (trough), the Assaf'yevsko-Privol'ninskiy massiv (mass), and the Sayano-Partizanskiy downwarp. The Sayano-Partizanskiy downwarp was filled with Jurassic sediments to a thickness up to 550 m. The downwarp is 48 km long, not over 4 km to 6 km wide, and the structure is asymmetric. On the southwest limb, the beds dip at angles of 6° to 12°; on the northeast, the dip angles range from 35° to 90°. A structure section and profile are given.

Card 3/3

A. S. Novikova

MORDOVSKIY, V.T. DITMAR, V.I.

On the structure of the Rybinsk Reservoir. Dokl.AN SSSR 107 no.5:
727-730 Ap '56.
(MLRA 9:8)

1. Institut nefti Akademii nauk SSSR. Predstavлено академиком
S.I. Mironovym.
(Rybinsk Reservoir--Geology, Structural)

DITMAR, V. I.

3 (5)

AUTHORS: Varentsov, M. I., Corresponding Member AS USSR; Ditmar, V. I. SOV/20-126-3-48/69

TITLE: On the Formation of the Tengizskaya and Karagandinskaya Depressions (K formirovaniyu Tengizskoy i Karagandinskoy vpadin)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 3, pp 630-633 (USSR)

ABSTRACT: The geological structure of the depressions mentioned in the title (Central Kazakhstan) was described by N. G. Kassin, N. S. Shatskiy, D. G. Sapozhnikov, G. L. Kushev and in the references 1-6 et al. In spite of this, there are contradictory interpretations of several basic problems of regional geology (Refs 3, 6). In the present paper, the authors describe their ideas of the main formation stages of the two mentioned depressions. Besides, they characterize, on the basis of their investigations, their recent structure in general. In this recent structural plan, both depressions represent depressions between mountains. On the whole, they show rounded outlines which are a little extended in the lateral sense. The boundaries of the Tengizskaya Depression are drawn on the basis of indications of the early Cambrian and of the

Card 1/3

On the Formation of the Tengizskaya and
Karagandinskaya Depressions

SOV/20-126-3-48/69

lower and middle Paleozoic periods; in the Karaganda Depression, rocks of the lower and middle Devonian system are used for this purpose. Both depressions are limited by folded zones and anticlinoria, respectively. In the east, the Karaganda Depression is not quite closed, and is continued by the so-called Ashhisuyskaya basin. The said reliefs formed at different points of time by different rocks according to their thickness and composition. The intensity and character of dislocations, the occurrence of magmatic activity etc are also different for individual reliefs. They are described in detail (Refs 1, 5). The whole manifold complex of sedimentary, metamorphic and magmatic formations taking part in the building-up of the two depressions and their surroundings, forms 3 distinctly from each other differing structural layers. They represent the main epochs of geotectonic evolution in the area referred to: the Caledonian folding epoch, the Hercynian Cycle of tectogenesis, and the Alpine folding (counted from bottom to top). During the Cretaceous and the Tertiary periods, the area referred to

Card 2/3

On the Formation of the Tengizskaya and
Karagandinskaya Depressions

SOV/20-126-3-48/69

was submitted to a denudation leveling owing to oscillating motions. Only at the end of the Oligocene, the wide and deep old valleys were filled with an accumulation of colored, mainly gypsum-containing loams due to a general lowering of the Central Kazakhstan. In the Quaternary period, the tendencies of a continuous lowering are partly maintained, and the recent structural plan is finally established. There are 6 Soviet references.

ASSOCIATION: Institut geologii i razrabotki goryuchikh iskopayemykh Akademii nauk SSSR (Institute for the Geology and Exploitation of Mineral Fuels of the Academy of Sciences, USSR)

SUBMITTED: March 16, 1959

Card 3/3